Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

REMOVED TO
Nos. 69 & 71 Main St.

MAR 30 1937
U.S. DEPARTMENT OF AGRICULTURE

CATALOGUE

OF

SEEDS

FARM IMPLEMENTS & MACHINERY,

SOLE WESTERN AGENCY FOR

Landreths' Warranted Garden Seeds,

FRUIT & ORNAMENTAL TREES,

FROM

F. A. SCHWILL & BRO.

AGRICULTURAL WAREHOUSE,

No. 64 & 66

SYCAMORE STREET,

CINCINNATI, O.

W. T. NORMAN, Wood Engraver & Printer, S.W. cor. Third & Sycamore Street, Cin'ti.

CALANDER 1865.

	S	M	T	W	T	F	S
JANUARY	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31				
FEBRUARY				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14		16	17	18
	19	20	21		23	24	25
	26	27	28				
MARCH					2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	
APRIL							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30						
MAY		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31			
JUNE					1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	

	S	M	T	W	T	F	S
JULY							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31					
AUGUST				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	
SEPTEMBER						1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
OCTOBER	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31				
NOVEMBER				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30		
DECEMBER						1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31						

DESCRIPTIVE CATALOGUE

—OF—

SEEDS

FARM IMPLEMENTS & MACHINERY,

SOLE WESTERN AGENCY FOR

Fruit & Ornamental Trees,

GRAPE ROOTS,

SHRUBS, STOCKS, ROSES, &c.

FROM

F. A. SCHWILL & BRO.

AGRICULTURAL WAREHOUSE,

No. 64 & 66 Sycamore-street,

CINCINNATI, O.

W. T. NORMAN, Wood Engraver & Printer, s. w. cor. Third & Sycamore St., Cin'ti.

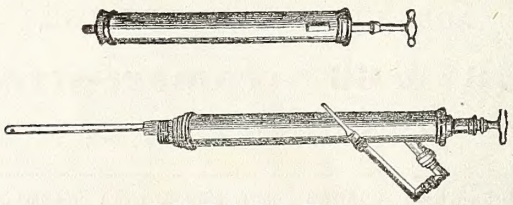
TO PURCHASERS OF GARDEN SEEDS.

ARGUMENT is unnecessary to establish the fact, that unless the seed which may be sown be *good in all respects*, the sower need not look for beneficial results; either he will be disappointed by its not vegetating, (the least of the evils), or he will find, after it may be too late to remedy the imposition practiced on him, that the variety is worthless. He is then left to reflect on the folly of purchasing cheap seeds, having before him a practical example of "the penny wise and pound foolish" practice.

☞ Distant Purchasers of LANDRETH'S SEEDS should obtain supplies only from responsible Dealers, and carefully observe the LABEL of which a copy is given below—

(NAME OF SEED.)

GROWN BY
DAVID LANDRETH & SON,
OF PHILADELPHIA,
AND SOLD BY
F. A. SCHWILL & BRO.
SEED AND IMPLEMENT WAREHOUSE,
Nos. 64 & 66 SYCAMORE STREET,
CINCINNATI, O.
Sole Wholesale Agent for Landreth's Garden Seeds.



SYRINGES.

CIRCULAR.

We have the pleasure of again addressing our friends and customers through this medium reminding them of the near approach of the Seed Season, and would respectfully solicit early orders.

D. Landreth & Son's Seed Plantation has been cultivated and increased during eighty years, and is now the largest of its kind either in America or Europe.

The garden seeds sold by us, are the produce of grounds cultivated under the strict personal inspection of the senior partner David Landreth; they are therefore enabled to *warrant* their proving precisely as represented.

We are furnishing Landreths' *Garden Seeds* in papers to wholesale buyers on precisely the same terms as if purchased in *Philadelphia*, viz:

50 per cent discount from retail price.

When the saving of extra freight the convenience of having supplementary orders for small quantities filled speedily are considered, the advantages which this arrangement offers are obvious.

The Cincinnati Agency has been established *Twenty* years, and its rapidly increasing sales have furnished a gratifying proof of the high reputation these seeds have obtained.

☞ For the convenience of country merchants,

Assorted Boxes of All Sizes

of Landreths' *Seeds* are kept readythrough the Season.
Nett price, $5, $10 and upwards.

☞ We also offer for sale a superb collection of

FLOWER SEEDS.

Descriptive catalogues sent by Mail on application.

IMPLEMENT DEPARTMENT.

The cuts and descriptions in the present number of this publication are from our Illustrated and Descriptive Catalogue of Implements, which was heretofore published. We have greatly extended the Agricuitural Department of our business, the more effectually to enable ourselves to keep pace with the growing wants of the country.

The successful results of our efforts in supplying approved Machinery only, encourages us to increased exertion; and we take this occasion to express our high sence of the encouragement extended to us, and shall continue our efforts to merit the patronage and confidence we have so long enjoyed.

ORNAMENTAL DEPARTMENT.

O page, No. 26, is a list of Evergreen and Fruit Trees, which we would especially re ommend for Cultivation by Amateures. They are grown with the utmost care, and the nomenclature of the Fruit, Roses, &c., may be relied upon.

F. A. SCHWILL & BRO.

Seed & Plant Warehouse,

64 & 66 SYCAMORE ST., CINCINNTAI, O.

ESTIMATE OF FARM SEEDS FOR AN ACRE.

WHEAT, broadcast,	1¾ to 2 bushels	RYE, broadcast,	1 to 2 bushels.
do drilled,	1 3.4 "	" drilled,	1 to 1½ "
BARLEY, broadcast,	2 to 2½ "	OATS, broadcast,	2 to 3 "
do drilled,	1¾ to 2 "	do drilled,	2 "

TIMOTHY, sown with grain in Autumn, followed by Clover in Spring, 1½ to 2 gal.
RED CLOVER, sown on grain in Spring in connection with Timothy, 1½ to 2 " without Timothy double quantity.

HERDS, or Red-top,	1 to 1½ bls of 14lbs	KY. Blue Grass,	1 to 1¾ bls of 14 lbs.
LUCE NE, drilled	10	DUTCH White Clover, broadcast	8
LAWN Grass*	2 to 2½ 15	do do do drilled,	6
MILLET	¾ to 1 bushel	CORN, in hills	1 t 1½ gallons.
SORGHUM, (sugar cane)	2 to 3 quarts	BUCKWHEAT,	1 bushel
BEET & Mangold Wurtzel	4 to 6 lbs	CARROT	2 to 3 lbs
TURNIP and Ruta Baga	1 lb	PARSNIP	4 to 6 lbs
BEAN, in drills, 1½ feet part,	1½ bushel	POTATOE	12 bushels.

* This is an approved admixture designed to produce permanent lawns growing richer with age and uniting beauty with utility. It is alike adapted to the smallest town plat or extended lawn.

GARDEN SEEDS.

For Description see LANDRETH'S Rural Register.

ARTICHOKE,
Asparagus

BUSH BEANS.

(Or Snap Short)

Early Brown, Refugee
Early Yellow
China Red eye
Red French. [tine
Red speckled valentine
Brown " "
Royal Dwarf, w. kidney

POLE RUNNERS.

Large Lima, or Butter
Scarlet Runner.
White Dutch.
Wrens Egg
Long Pod
Broad Windsor.

BEET.

Extra Early, bassano
Early Blood Turnip
Long Blood Red
French Sugar
Mangold Wurzel.

BORECOLE

Dwarf German Kale
Scotch Kale
Sea Kale.

BROCCOLI.

Purple Cape
Early White
Brussels Sprout.

CABBAGE.

Early York
Landreths Large York
Fr. ox Heart
Early Sugar Loaf
Green Curled Savoy

(CABBAGE *Continued.*)

Early Drumhead
Late "
" Flat Dutch
Drumhead Savoy
Early Cone wining
Red Dutch. [stadt

CARROT.

Long Orange
Early Horn
Halflong
White Field, large.

CAULIFLOWER

Early Asiatic
Late Dutch

CELERY.

White Solid
Red "
Turnip Rooted.
Cress Chervil
Collards Cardoon
Corn Salad or Vettikost

CORN.

Evergreen
Sweet or Sugar
Early Canada
" Adams
White Flint
Pennsylvania Yellow
Tuscarora.

CUCUMBER.

Early Frame
Long Green
White Spine
Gherkin.

EGG PLANT.

Large Purple
Early Purple
Endive
Kohl Rabbi
Leek.

LETTUCE.

Early Curled
Early Cabbage
Brown Dutch
Royal Cabbage
Curled India
White and Green Cos.

MELON.

utmeg
Citron
Jenny Lind
Carolina Water
Mountain Sweet Water
" Sprout "
Orange "

MUSHROOM SPAWN

Mustard white, brown
Nasturtium
Okra.

ONION.

Large Red Wethersfield
" Yellow Strasburg
White or silver skin'd

ONION SETS.

Tops and Bottoms.

PARSLEY
PARSNIP.

PEAS.

Landreth's extra early
Early Frame

(PEAS, *continued*).

Bishop's Dwarf
Dwarf blue Imperial
Royal Dwf. Marrowfat
Large white "
Black eye "
Blue Prussian
Dwarf & tall Sugar
Tom Thumb, dwarf
Champion of England

PEPPER.

Large bell-shaped
" Bull Nose
Cayenne.

PUMPKIN.

Cashaw
Field
Mammoth

RADISH.

Long Scarlet
" Salmon
White Turniprooted
Red " "
Yellow " "
Summer White
White Spanish
Black "
Lady Finger.

RHUBARB.

Pie Plant.

SALSIFY.

Oyster Plant.
Garden-sorrel.

SPINACH.

Round Savoy
Prickley seed.

SQUASH.

Early Bush patty-pan
Long Green
Cocoanut
Marrow
Hubbard
Turban & Yokohamas

TOMATO.

Large Red
" Yellow
Extra Early
Cherry & Pear-shaped.

TURNIP.

Early Flat Dutch
Red Top, strapleaved
Early Stone
Large Norfolk
" Globe
Yellow Aberdeen
Ruta Baga.

Aromatic and Sweet Herbs.

Sweet Marjoram, Sweet Basil, Sage, Savory, Thyme, Rosemary, &c.

FARM SEEDS.

PARTICULAR attention is given to this department of our business. These seeds are selected with special reference to their quality. Purchasers may rely upon our best exertions to furnish Grass and Grain Seeds fresh, pure, and free from noxious and foreign seeds.

Orchard Grass	Mixed Lawn Grass	Millet seed
Herd or Red Top Grass	Red Clover	Zain Foin
Perennial Rye "	Timothy	Tre-Foil
Kentucky Blue "	Lucerne seed	Vetches or Tares
Native Green "	Dutch Clover, white	Field Peas
Annual Rye "	Alsike Clover	Japan Peas

Osage Orange seed.

Wheat, Rye, Barley, Oats, Buckwheat, Corn, Potatoes, &c.

Ruta Baga, Globe, Norfolk, Aberdeen, Stone and Dale's Hybrid Turnips, Silesian Sugar Beet white, Long Red Mangel-wurtzel Beet, Long Orange Carrot, Belgian or white Carrot, Altringham Carrot, Blood-red Carrot.

BIRD SEEDS.

We supply consumers and dealers with Canary, Hemp, Rape, Millet, Maw and Lettuce seeds. ☞ Cuttle-fish bone for birds.

Sweet Potatoe seed and Plants. Evergreen, Tree, Fruit and Cotton seeds, Pitts, &c.

AGRICULTURAL IMPLEMENTS.

PLOWS.

THIS, the most important implement in Agriculture, has received particular attention. Our assortment is large, and comprises a contribution from prominent makers throughout the country—thus ensuring to purchasers the latest improvements, and such as they may deem best suited to soil, crops, or special purposes.

Of the ONE-HORSE **PEACOCK PLOW** (STEEL).

We have a large stock at low prices.—Every farmer in Ohio and the adjoining States, is familiar with this plow; and admires and approves its beautiful symmetry, light draft and excellent performance. Our stock of

CALHOUN AND AVERY PLOWS,

SHOVEL PLOWS,

SUBSOIL PLOWS,

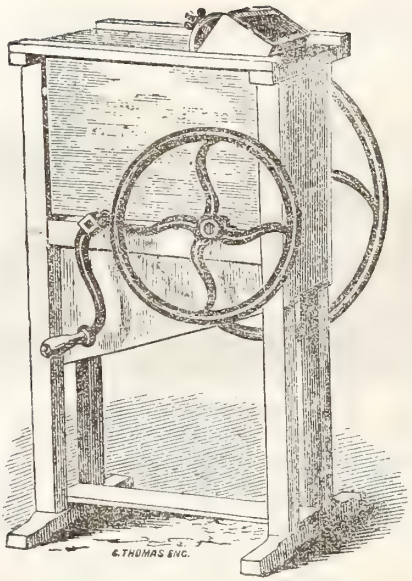
HILL-SIDE PLOWS,

COTTON PLANTERS,

Cotton Plows and Scrapers.

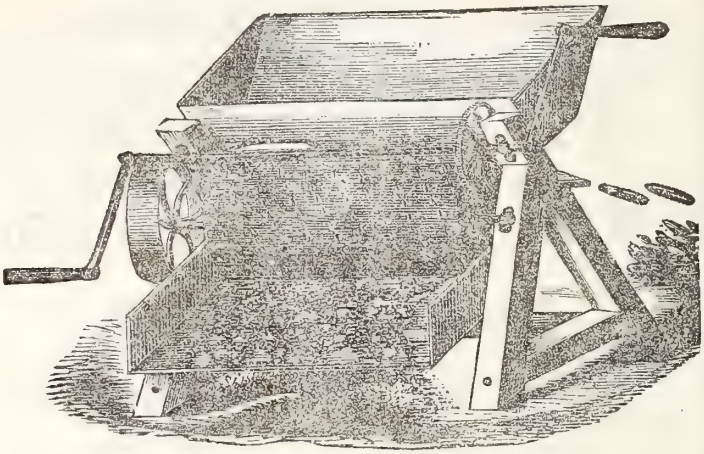
CULTIVATORS, HARROWS, &c.

is large and well assorted. ☞ Call and examine them!



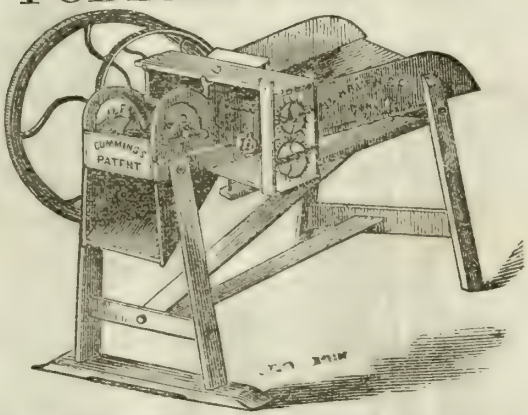
CORN SHELLERS.

In this line we offer something new, with Cob Seperator and Fan; also the old, well known Western and South'n Shellers. The double Sheller is adapted to both horse and hand power: the single Sheller is suitable for small farms, and is thoroughly effecient. The large Power Sheller is of the capacity of three thousand bushels per day.



Great Western Corn Sheller & Cob Seperator.

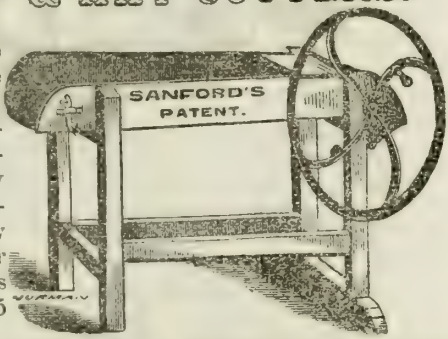
FODDER CUTTERS.



STRAW & HAY CUTTERS.

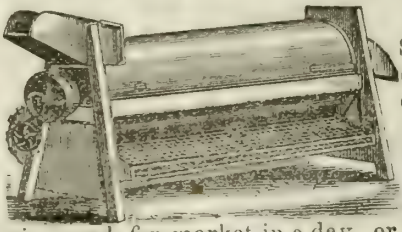
Of the above we offer for sale three sizes.

We also keep SINCLAIRS AND CUMMING'S Pat. Straw & Corn Stalk Masticator and Screw Propeller Fodder Cutters at prices varying from $35 to $85.



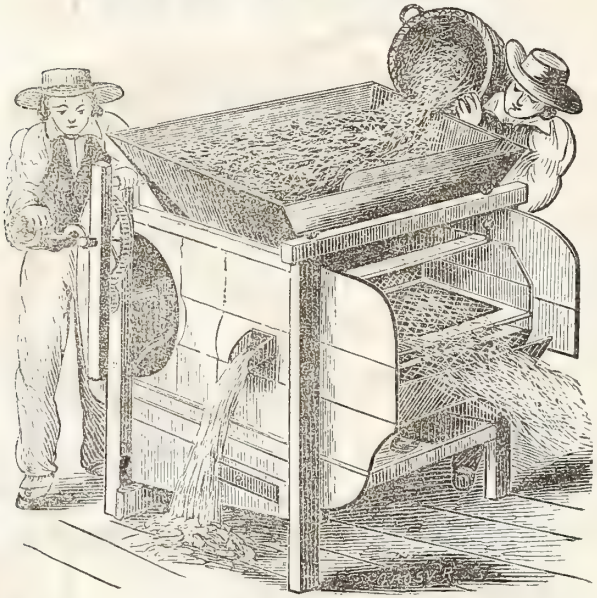
POWER

CORN SHELLER & CLEANER.



READING'S Pat. Corn Sheller and Cleaner is of extraordinary capacity. With a 2-horse R.R. or tread power, 1000 bushels of corn may be shelled, separated from the cobs, & winnowed for market in a day, or 140 bushels per hour.

FANNING MILLS.



The proprietors in offering the above Mill, believe it to be very effetive for cleaning every kind of Grain, Grass, seeds &c, which it does most perfectly at one operation.

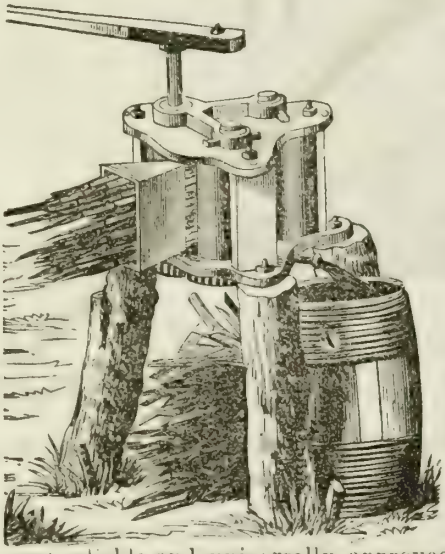
They furnish three sizes made of the best material and in the most substantial manner. Six sieves accompany each mill with printed directions (permanently attached) showing the sieves, slides, &c., to clean the different kinds.

"AMERICAN" CORN & COB CRUSHER.

For farm and Plantation use, this is the most valuable machine ever introduced it is simply worked by one horse or mule attached to a wooden lever, thus saving the necessity, cost and delay of employing a steam power machine.

Also, **The VICTOR**, a portable Iron Corn and Grist Mill, can be run by steam, water, or horse power. This Mill with the improvements recently made, for grinding corn into meal, is equal, if not superior, to any Burr Mill It will also grind wheat and other grain, into excellent flour or chop, at the rate of from ten to *twenty* bushels per hour, and for cattle, horse or other feed, it has no superior, as it crushes and grinds *Cob and Corn at the same time*, with the greatest facility. And for grinding bones it is decidedly the best mill now in use.

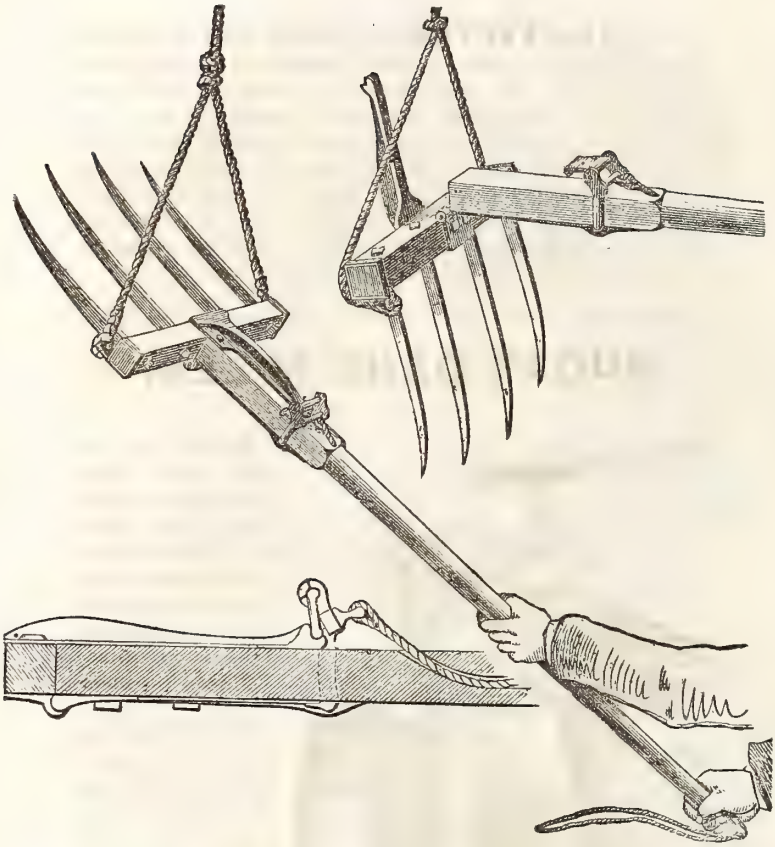
SUGAR CANE MILLS.



We will give Sugar Cane Mills particular attention, & will make every effort tofurnish growerswith machines adapted in every particular to the requirements of the business.

We believe that in availing ourselves of ELMER & FORKNER'S P'at Cane Mill, with latest improvements, of which the annexed is a cut, we have secured the best, most reliable and universally approved machine of the kind in use. We also have three sizes of CLARK'S SORGHO MILLS, & COOK'S EVAPORATING PANS of all sizes.

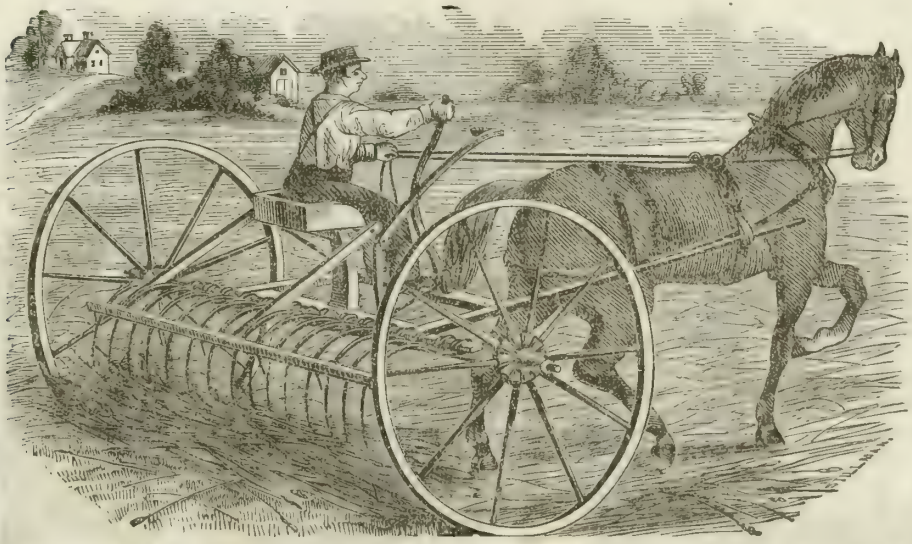
☞ Landreths' Garden seeds are always warranted true to name.



Self-Adjusting Hay-Elevator or Hoisting-Fork.

THIS Fork is as much of a labor-saving Machine as the Mowing Machine and Horse Rake. The cut above shows the Fork in two positions, one shows the position of the Fork when elevating a Forkfull, the other shows it in the position of discharging the Forkfull. The operator has perfect control of the Fork, instantly discharging the Forkfull by means of a small cord which is attached to the latch, and runs through the handle, and is attached to the end of the handle or guiding rope. As soon as empty it resumes its former position.

☞ We also have Three other Patent Forks! Price, 12 to $20, ☜



Improved steel tooth Horse, Hay and Grain Rake.

This is one of the most complete Rakes for Hay and Stubble which has been invented. Running on wheels same as a carriage, and capable of being managed without getting off of the Rake, by any small boy, who can drive a horse, and being constructed with steel teeth which act independently of each other and admit of its passing over obstacles without affecting its work, makes it one of the most desirable and labor saving implements in use. It does not brush of the leaves of clover. As a gleaner, it is invaluable,--may be used without reference to dew or sunshine, does not beat out the grain, and collects the straw with entire freedom from dust.

Mowing and Reaping Machines.

All the approved machines for Mowing and Reaping, as well as LAWN MOWERS of English manufacture, can be furnished to order, several of which can be seen at our warehouse.

WARRANTY—We warrant these machines to be well made of good materials, simple, durable, and easy of draft for two horses. The Combined Reaper will cut from twelve to fifteen acres of small grain per day. The Large Mower will cut and spread from eight to ten acres of grass per day. The Small Mower will cut from five to seven acres of grass or clover per day. As a Mower they will cut lodged grass, or lodged and wet clover without clogging.

N.B.-We supply Extras for every part of the Machine at short notice.

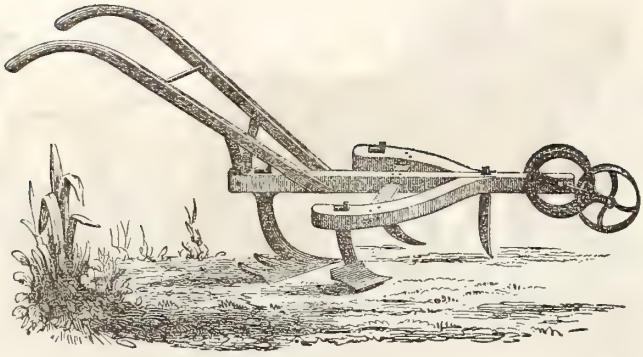
D. Landreth and son's *Warranted Garden Seeds* have a wide spread reputation and are more satisfactory and profitable to dealers than any other offered to Country Merchants.

PATENT GRAIN DRILL.

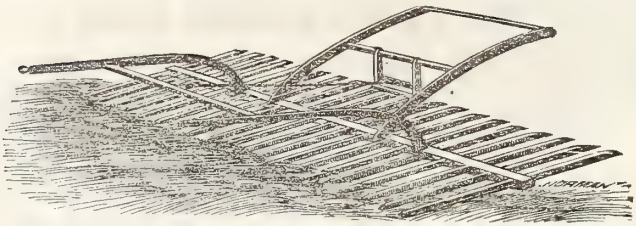
This is the most efficient and simple Drill now in use. There is no complicated machinery about it. Every part operates with the regularity of clock work. It will plant wheat, rye, barley, Indian corn, and oats, timothy and clover seed, &c, and can be regulated to drop any required quantity on an acre The drills can be thrown in or out of gear separately, so as to plant a field in any shape without seeding twice. They are so arranged as to operate equally well on all kinds of land.

Hay & Cotton Presses!

Hand or Power.



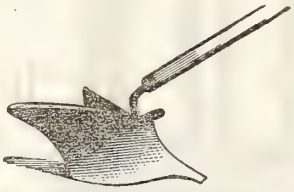
HORSE HOE.



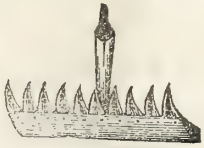
Revolving Horse Rake for Grain & Hay.

Are manufactured by Hall, Brown & Co., and are the best in the Country. They are made of hickory and are in every respect of good workmenship and durable. It is not exaggerating to say that a man and horse will perform in the most perfect manner, with this implement, as much work as eight or ten men with hand rake, Price 10 to $14

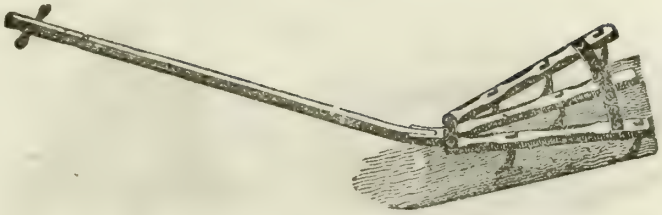
SCUFFLE HOE.



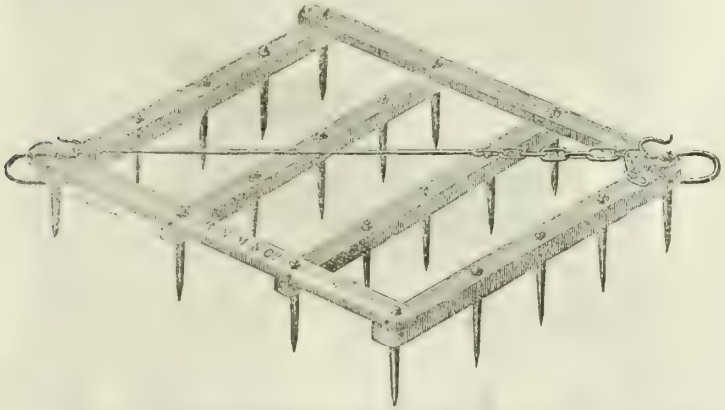
HAND PLOW.



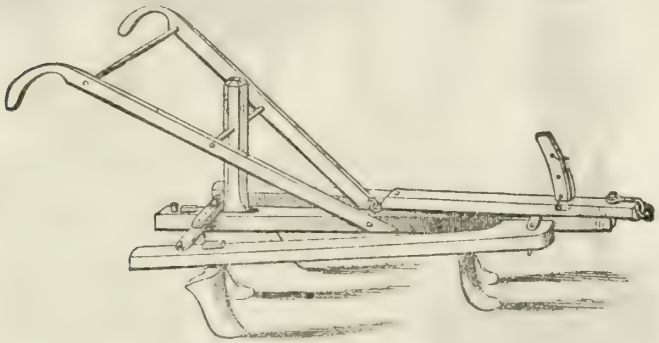
LAWN RAKE.



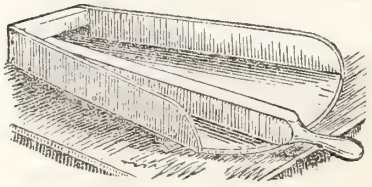
HAND CULTIVATOR.



REVERSABLE HARROW.



EXPANDING CULTIVATOR.

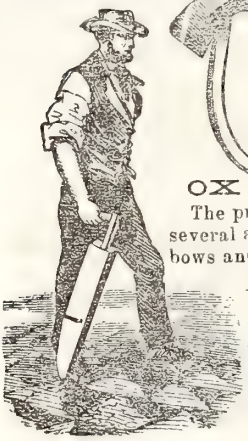


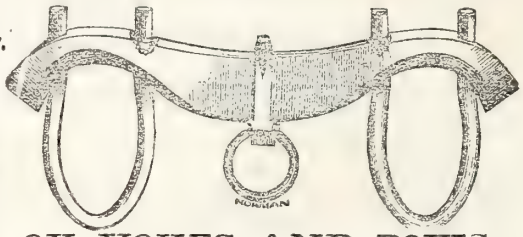
Butter Worker.

PUMPS *of all kinds.*

Horsepowers, Thrashers & Separators.

WAKEFIELD'S
Hand Corn Planter.





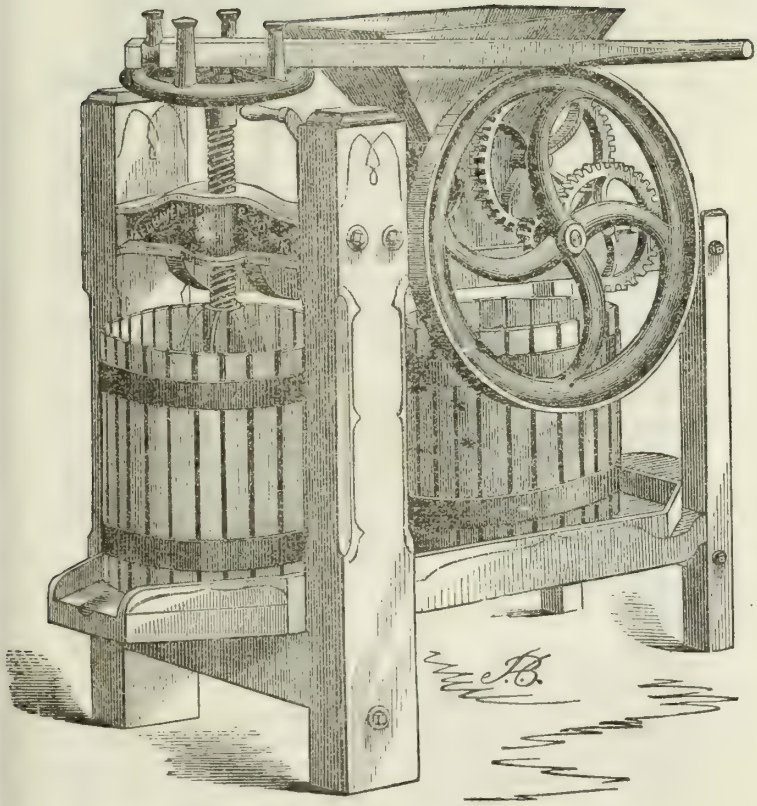
OX YOKES AND BOWS.

The propietors have different kinds and sizes, from several approved makers, and can furnish them with bows and irons complete, or other part separately, also,
PATENT BOW PINS.

Grain Cradles & Scythes.

WHEEL BARROWS, &c.

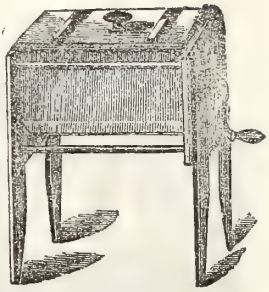
Shovels, Spades, Forks, Mattocks, Picks, Axes, etc. etc.



Cider and Wine Mills and Presses.

Our stock of this article is complete of the most improved kinds, among which are the following: BUCKEYE MILL, as seen in the cut above; also, the CHAMPION MILL, somewhat similar to the above and a well finished Mill Also, No 1, I-X-L Mill, similar to the Champion. Price, from $40 to $60 With the use of this mill a small quantity of apples may be made into Cider, if desired, with little or no trouble, although it will make one hundred barrels of Cider daily.

CHURNS!



Of these we manufacture the well-known World's Fair Prize or Davis Churn, which we can recommend to our customers with confidence in every respect Directions sent with each Churn.

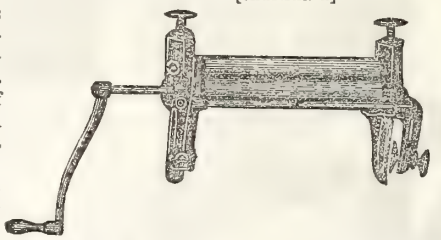
We keep three sizes.

Also, constantly on hand Barrel and Cylinder Churns, Thermometer and Dash Churns of every description.

CLOTHES RINGERS.

They have been pronounced by thousands who have tested them to be the *very best Machine in the market.*

[SHERMAN'S.]



1st Because it is simple in construction, and cannot possibly get out of order.

2d It is made of the best Galvanized Iron and will not rust.

3d There is no wood about it to swell, decay, or shrink

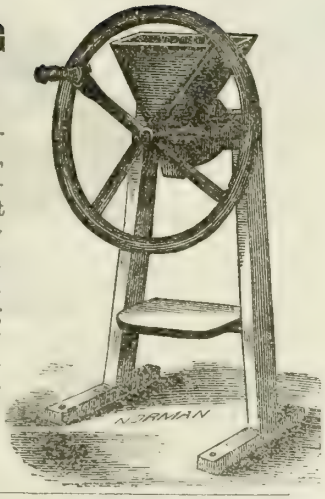
4th It combines more strength of frame, capacity for pressure, and power of action, than the many apologies for Wringers, all put together, that the recent public demand for *a machine* seems to have called into, what has proved to be, an unsatisfying and temporary existence. All who contemplate purchasing a Clothes Wringer, will please remember that we are now fully prepared to supply any demand with an article in every way complete and which is warranted. ALSO,

The WHIRLPOOL and UNION Washing Machines.

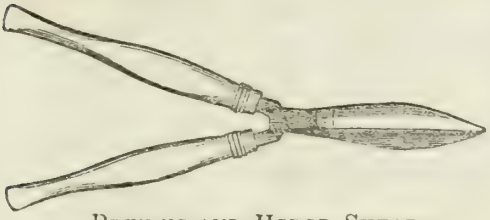
Pruining Saw with Chise.

HAND, GRAIN & DRUG MILL.

This Mill is used for grinding grain, coffee, and spices, as desired It is usually operated by hand, though it can be constructed to run by other power. It grinds from one to two bushels per hour. When the plates or grinding surfaces are worn out, they can be replaced. It is a desirable mill for public or boarding house. Price $12 to $16.



Our assortment of Horticultural Tools is one of the largest and best selected with great care from the best English and American make.



PRUNING AND HEDGE SHEARS.

Steel and Malleable Iron Garden Rakes and Hoes!

LIST OF

Fruit & Ornamental Trees

Which we would recommend for cultivation by Amateurs sufficient to begin with, and which may be planted on every soil and in every exposure, without fear of failure. Of course, careful planting is always to be observed.

Summer Apples.

Early Harvest
Red Astracan
Summer Queen.

Autumn Apples.

Gravenstein
Maiden's Blush
Rambo
Perry's Mammouth.

Winter Apples.

Pippin, white
Smith's Cider
Rome Beauty
Æsopus Spitzenberg
Beliflower.

Summer Pears.

Bartlett
Madeleine
Tyson
Julienne.

Autumn Pears.

Seckel
Beurrediel
Doyenne d'Dree
Kirkland
Doyenne, white.

Winter Pears.

Vicar of Wakefield
Winter Nelis
Glout Morceau
Jaminette.

Heart Cherries.

Baumans May
Belle d'Drleans
Black Tartarian
Yellow Spanish.

Duke and Morello.

May, early
Belle d'Choisy
Reine Hortense
May Duke.

Kirkland's Seedling.

Kirkland's Morello
Mammoth
Red Jacket.

Peaches.

Crawford's Early
Heath's Free
" Cling
Honest John
Royal Kensington
Smock's Free
Red Cheek Malacota
Monstrous Free.

Plums.

Cole's Golden Drop
German Prune
Washington
Yellow Gage.

Quince.

Portugae
Ray's Seedling
German Needlers.

GRAPES.

Herbemont, Delaware,
Union Village, Minor's Seedling
Rebecca.

We also offer a large and select stock of **Roses, Bedding Out Plants, and Shrubbery** well packed for travelling long distances, at the lowest market prices.

Rhubarb and Asparagus Roots.

EVERGREENS.

SHOULD the reader of this article love trees, especially Evergreens, he will appreciate our desire to impress others with similar taste, and induce more extended planting. He will also rejoice with us at the evident improvement in rural homesteads, and the increase in decorative taste giving in many cases to the simple cottage a charm which we may seek for in vain around more pretentious structures, where the union of brick and morter has been, in the estimation of the builder, the ideal of beauty. It may be there are those who would willingly plant, did they know which Evergreens were to be prefered: let us, therefore, name a few, sufficient to begin with, and which may be planted on every soil and in any exposure, without fear of failure. Of course, careful planting is always to be observed.

Norway and Silver Fir, White and Hemlock Spruce, White and Austrina Pine, and Balm of Gilead.

These are large growing trees, and should not be planted with n twelve feet of a walk, els they will ultimate y require to be trimmed up, which mars their beauty.

Siberian & Golden Arborvitæ, English Yew, Sweedish & Irish Juniper Tree Box, plain and variegated.

These are dwarfs, and may be planted within five feet of the walks.

Where the expense is an object to be considered, purchase small plants of each, they will cost but a trifle. Plant them in the garden for a year or two, and when large enough transplant.

SUGGESTION ON PLANTING.

PREPARATION OF THE SOIL. The roots of nearly all plants and Trees are impatient of stagnant moisture, so that the soil should be dry, either naturally or made so by drainage, and should be subsoil plowed Exhausted and worn land should be manured.

PREPARATION OF THE TREES. All bruised and broken roots at the injured points should be cut on the under side, with a sloping cut, with a sharp knife, either at planting or at time of heeling in. Next shorten in side branches and even the leader is better shortened in. This establishes a proper balance of action between root and top, for in digging and packing the system of roots must be more or less broken and reduced, and unless the top is reduced in proportion; the transplanted tree, with a full head, will make feeble and sickly foliage.

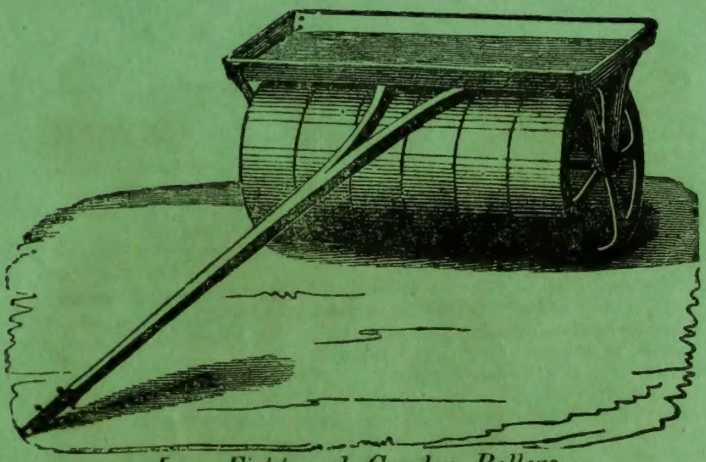
PLANTING. Dig holes large enough to allow the roots to be spread out in their natural position, say 20 inches to 2 feet deep, and 2½ to 3 feet wide; fill in the hole with earth so that the roots, resting on the filled earth and allowing for settling, shall not be deeper than before taken up, and that the tree shall stand with its top roots near the stem not more than 1 to 2 inches below general surface: fill in around the roots with mixed pulverized top earth so that it shall come in contact with every root, and, if planting early in fall or late in spring in dry weather, before the hole is all filled in, water may be poured around the roots and the earth pressed gently with the foot causing the tree to stand firm in its position. Dwarf Pear Trees should always be planted 1 or 2 inches below the junction of the Pear and Quince.

Trees that are tall and much exposed to winds should be secured by a stake planted with the tree, secured to the stake in such away as to avoid chafing the tree. After the tree is planted in this way, throw around it beyond the roots to the extent of the hole. 3 to 6 inches of manure or litter. This is half the battle in protecting the trees from our summer droughts. The ground should be kept clean and loose about them for the first few years at least, by annual cultivation in root crops.

The best time to plant *EVERGREENS* is from the beginning to middle of Autum, as soon as possible after the new wood is matured, while the earth is yet warm from summer heat and the air congenial: or during the month of April or part of May, after the March winds have subsided and the soil begins to grow warm, and the sap is starting.

DISTANCE BETWEEN TREES IN PLANTING.

STANDARD Apples, 30 feet apart each way; in poor soil, 25 feet
" Pears and Cherries, 20 feet apart each way.
" Cherries may do at 18; and Dwarf growing kinds at 16ft.
" Plums. 12 to 15 feet, and Peaches at 15 to 18 ft., each way.
Apricots and Nectarines, same as Peaches; Quinces, 10 to 12ft., "
Pyramidal Apples, Pears, Cherries, and Plums 8 to 10 feet each way.
Dwarf Apples on Paradis, 5 to 6 ft, on Doucaine, 8 to 10 ft. "
" Cherries on Mahaleb, of Duke & Morello, 8ft. Hearts & Big. 10 to 12
Currants, Gooseberries & Raspb's. 3 to 6ft. Strawb's. 2 to 3ft. plants 18in.



Iron Field and Garden Rollers.

ROAD SCRAPERS.

NEW PATENT
WINE AND CIDER MILL.

AMALGAM BELLS

F. A. SCHWILL & BRO.

—Dealers in The—

BALL, BUCKEYE,

HUBBARD

—AND OTHER—

Mowing Machines,

IRON HARVESTERS,

—AND—

CHAMPION SELF-RAKERS

COMBINED.